



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name BOSTIK HYTEC E570 ONE COAT - PART B

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Hardener

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)
NHS: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine; Benzyl alcohol; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 1,3-Benzenedimethanamine; Phenol, styrenated; 3-aminopropyltriethoxysilane

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5



Signal word
Danger

Hazard statements

H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P260 - Do not breathe vapour
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P391 - Collect spillage
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing. Toxic to aquatic life.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No (EU Index No).	CAS No..	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine 10 - <20 %	606-078-8	186321-96-0	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1	01-2119983521-35-xxxx

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

Benzyl alcohol 10 - <20 %	202-859-9 (603-057-00-5)	100-51-6	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Skin Sens. 1B (H317)	-	-	-	01-2119492630-38-XXXX
3-aminomethyl-3,5,5-trimethylcyclohexylamine 5 - <10 %	220-666-8 (612-067-00-9)	2855-13-2	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317)	Skin Sens. 1A :: C>=0.001%	-	-	01-2119514687-32-XXXX
2,4,6-tris(dimethylamino methyl)phenol 1 - <3 %	202-013-9 (603-069-00-0)	90-72-2	Acute Tox. 4 (H302) Skin Corr. 1C (H314) Eye Dam. 1 (H318)	-	-	-	01-2119560597-27-XXXX
1,3-Benzenedimethanamine 1 - <3 %	216-032-5	1477-55-0	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1B (H317) Aquatic Chronic 3 (H412) (EUH071)	-	-	-	01-2119480150-50-XXXX
Phenol, styrenated 1 - <2.5 %	262-975-0	61788-44-1	Skin Irrit. 2 (H315) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	-	-	-	01-2119980970-27-XXXX
3-aminopropyltriethoxysilane 0.1 - <0.5 %	213-048-4 (612-108-00-0)	919-30-2	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317)	-	-	-	01-2119480479-24-XXXX

Air contaminants formed when using the substance or mixture as intended

Chemical name	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Ethanol 64-17-5	200-578-6 (603-002-00-5)	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	-	-	-	01-2119457610-43-XXXX

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) for classifying a mixture based on its components

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	606-078-8	186321-96-0	-	-	-	-	-
Benzyl alcohol	202-859-9 (603-057-00-5)	100-51-6	1200	-	4.178	-	-
3-aminomethyl-3,5,5-tri	220-666-8	2855-13-2	1030+	-	-	-	-

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
methylcyclohexylamine	(612-067-00-9)						
2,4,6-tris(dimethylaminomethyl)phenol	202-013-9 (603-069-00-0)	90-72-2	1999	-	-	-	-
1,3-Benzenedimethanamine	216-032-5	1477-55-0	930	-	1.34	-	-
Phenol, styrenated	262-975-0	61788-44-1	-	-	-	-	-
3-aminopropyltriethoxysilane	213-048-4 (612-108-00-0)	919-30-2	1490	-	-	-	-

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention. May cause an allergic skin reaction.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Burning sensation. Itching. Rashes. Hives.
Effects of Exposure	No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitisation in susceptible persons. Treat symptomatically.
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SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Product is or contains a sensitizer. May cause sensitisation by skin contact.

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO₂). Ammonia. Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

clothing and wash it before reuse.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

7.3. Specific end use(s)

Specific use(s)
Hardener.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing

Chemical name	European Union	United Kingdom
Hematite 1317-60-8	-	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Ethanol 64-17-5	-	TWA: 1000 ppm TWA: 1920 mg/m ³ STEL: 3000 ppm STEL: 5760 mg/m ³

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
Benzyl alcohol (100-51-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	22 mg/m ³	
worker Short term Systemic health effects	Inhalation	110 mg/m ³	
worker Long term Systemic health effects	Dermal	8 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	40 mg/kg bw/d	
3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

worker	Inhalation	0.073 mg/m ³	
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2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects worker	Inhalation	0.53 mg/m ³	
Short term Systemic health effects worker	Inhalation	2.1 mg/m ³	
Long term Systemic health effects worker	Dermal	0.15 mg/kg	
Short term Systemic health effects worker	Dermal	0.6 mg/kg	

1,3-Benzenedimethanamine (1477-55-0)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Dermal	0.33 mg/kg bw/d	
worker	Inhalation	1.2 mg/m ³	

Phenol, styrenated (61788-44-1)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Dermal	2.1 mg/kg bw/d	
worker	Inhalation	7.4 mg/m ³	

3-aminopropyltriethoxysilane (919-30-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	59 mg/m ³	
worker Short term Systemic health effects	Inhalation	59 mg/m ³	
worker Long term Systemic health effects	Dermal	8.3 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	8.3 mg/kg bw/d	

Derived No Effect Level (DNEL)			
Benzyl alcohol (100-51-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	5.4 mg/m ³	
Consumer Short term Systemic health effects	Inhalation	27 mg/m ³	
Consumer Long term Systemic health effects	Dermal	4 mg/kg bw/d	

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

Consumer Short term Systemic health effects	Dermal	20 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	4 mg/kg bw/d	
Consumer Short term Systemic health effects	Oral	20 mg/kg bw/d	

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects Consumer	Inhalation	0.13 mg/m ³	
Short term Systemic health effects Consumer	Inhalation	0.13 mg/m ³	
Long term Systemic health effects Consumer	Dermal	0.075 mg/kg	
Short term Systemic health effects Consumer	Dermal	0.075 mg/kg	
Long term Systemic health effects Consumer	Oral	0.075 mg/kg	

3-aminopropyltriethoxysilane (919-30-2)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	17 mg/m ³	
Consumer Short term Systemic health effects	Inhalation	17.4 mg/m ³	
Consumer Long term Systemic health effects	Dermal	5 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	5 mg/kg bw/d	

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)

Benzyl alcohol (100-51-6)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Microorganisms in sewage treatment	39 mg/l
Freshwater sediment	5.27 mg/kg dry weight
Marine sediment	0.527 mg/kg dry weight
Soil	0.456 mg/kg dry weight
Freshwater - intermittent	2,3 mg/l

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.094 mg/l
Marine water	0.0094 mg/l

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.046 mg/l
Marine water	0.005 mg/l
Sewage treatment plant	0.262 mg/l
Freshwater - intermittent	0.46 mg/l
Soil	0.025 mg/kg

1,3-Benzenedimethanamine (1477-55-0)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.094 mg/l
Marine water	0.0094 mg/l

Phenol, styrenated (61788-44-1)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.001 mg/l

3-aminopropyltriethoxysilane (919-30-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.33 mg/l
Marine water	0.033 mg/l

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Ensure that enough fresh air is supplied to dilute and remove dusts, fumes or vapours. Between 5 and 15 air changes per hour are recommended, with a through draught.

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield. Eye protection must conform to standard EN 166.

Hand protection Wear protective gloves. Gloves must conform to standard EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Skin and body protection Wear appropriate personal protective clothing to prevent skin contact.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Paste
Colour	Black
Odour	Characteristic.

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known.
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	
Water solubility	No data available.	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	1.8	
Bulk density	No data available	
Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

Solid content (%)	No information available	
VOC content		No data available

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidising agent.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives.
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Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,198.70 mg/kg
ATEmix (dermal)	>2000 mg/kg
ATEmix (inhalation-gas)	>20000 ppm
ATEmix (inhalation-dust/mist)	8.63 mg/l
ATEmix (inhalation-vapour)	>20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	LD50 > 2000 mg/kg	LD50 > 2000 mg/kg	-
Benzyl alcohol	LD50 = 1620 mg/kg (Rattus)	> 2 g/kg (Oryctolagus cuniculus)	>4.17 mg/L (Rattus) 4 h
3-aminomethyl-3,5,5-trimethylcyclohexylamine	=1040 mg/kg (Rattus)	LD50 > 2000 mg/kg (Rattus) OECD 402	> 5.01 mg/L (Rat) 4 h 1.07 - 5.01 mg/L (Rat) 4 h
2,4,6-tris(dimethylaminomethyl)	LD50 > 1 916 - < 2 455 mg/kg	> 1 ml/kg (Rattus)	-

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

)phenol	(Rattus)		
1,3-Benzenedimethanamine	=930 mg/kg (Rattus)	> 2 g/kg (Oryctolagus cuniculus)	LC50 (4h) = 1.34 mg/L (Rattus) OECD 403
Phenol, styrenated	LD50 > 2000 mg/kg (Rattus) OECD 423	LD50 > 2000 mg/kg (Rattus) OECD 402	>2.5 mg/L (Rattus) 6 h
3-aminopropyltriethoxysilane	LD50 = 1490 mg/kg (Rattus, female) EPA OTS 798.1175 LD50 = 2690 mg/kg (Rattus, male) EPA OTS 798.1175	LD50 = 4076 mg/kg (Oryctolagus cuniculus) EPA OTS 798.1100	LC50 >144 mg/L (6h) Rattus (Vapour)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage. Causes burns.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
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SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

	plants		microorganisms			(long-term)
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine 186321-96-0	EC50 (72h) = 0.77 mg/L (Pseudokirchneriella subcapitata) OECD Guideline 201	LC50: =1.806mg/L (96h, Oncorhynchus mykiss)	-	EC50 (48h) = 0.705 mg/L (Daphnia magna) OECD 202	1	1
Benzyl alcohol 100-51-6	EC 50 (72h) = 700 mg/L (Pseudokirchneriella subcapitata) OECD 201	LC50 96 h = 460 mg/L (Pimephales promelas static)	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	EC50 48 h = 230 mg/L (Daphnia magna)		
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	EC50: =37mg/L (72h, Desmodemus subspicatus)	LC50: =110mg/L (96h, Leuciscus idus)	-	EC50: =42mg/L (24h, Daphnia magna) EC50: 14.6 - 21.5mg/L (48h, Daphnia magna)		
2,4,6-tris(dimethylaminoethyl)phenol 90-72-2	EC50 (72h) = 84 mg/L (Desmodemus subspicatus) OECD 201	CL50 (96h) =175 mg/L (Cyprinus carpio)	-	-		
1,3-Benzenedimethanamine 1477-55-0	EC50 (72h) = 20.3 mg/L (Pseudokirchneriella subcapitata) OECD 201	LC50 (96h) =87.6 mg/L (Oryzias latipes) Semi-static (OECD 203)	-	EC50 (48h) =15.2 mg/L (Daphnia magna) Static (OECD 202)		
Phenol, styrenated 61788-44-1	EL50 (72h) = 3.14 mg/L (Desmodemus subspicatus) OECD 201	LL50 (96h) = 14.8 mg/L (Danio rerio) OECD 203	-	EL50 (48h) = 17 mg/L (Daphnia magna) OECD 202		
3-aminopropyltriethoxysilane 919-30-2	EC50 (72h) >1000 mg/L Green algae (desmodemus subspicatus) (OECD TG 201)	LC50 (96h) >934 mg/L (Brachydanio rerio) (OECD TG 203)	-	EC50 (48h) =331 mg/L Daphnia magna (OECD TG 202)		

12.2. Persistence and degradability

Persistence and degradability No information available.

Benzyl alcohol (100-51-6)

Method	Exposure time	Value	Results
OECD Test No. 301A: Ready Biodegradability: DOC Die-Away Test (TG 301 A)	21 days	95 - 97%	Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Fatty acids, tall-oil, reaction products with bisphenol A,	3.38

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	
Benzyl alcohol	1.05
3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.99
2,4,6-tris(dimethylaminomethyl)phenol	0.219
1,3-Benzenedimethanamine	0.18
Phenol, styrenated	3.13
3-aminopropyltriethoxysilane	1.7

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	The substance is not PBT / vPvB
Benzyl alcohol	The substance is not PBT / vPvB
3-aminomethyl-3,5,5-trimethylcyclohexylamine	The substance is not PBT / vPvB
2,4,6-tris(dimethylaminomethyl)phenol	The substance is not PBT / vPvB
1,3-Benzenedimethanamine	The substance is not PBT / vPvB
Phenol, styrenated	The substance is not PBT / vPvB
3-aminopropyltriethoxysilane	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Note: The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

Land transport (ADR/RID)

14.1 UN number or ID number UN2735

14.2 UN proper shipping name Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, 1,3-Benzenedimethanamine)

14.3 Transport hazard class(es) 8

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

Labels	8
14.4 Packing group	III
Description	UN2735, Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, 1,3-Benzenedimethanamine), 8, III, (E), Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	274
Classification code	C7
Tunnel restriction code	(E)
Limited quantity (LQ)	5 L
ADR Hazard Id (Kemmler Number)	80

IMDG

14.1 UN number or ID number	UN2735
14.2 UN proper shipping name	Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, 1,3-Benzenedimethanamine)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN2735, Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, 1,3-Benzenedimethanamine, Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine), 8, III, Marine pollutant
14.5 Marine pollutant	P
14.6 Special precautions for user	
Special Provisions	223, 274
Limited Quantity (LQ)	5 L
EmS-No.	F-A, S-B
14.7 Maritime transport in bulk according to IMO instruments	
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	UN2735
14.2 UN proper shipping name	Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, 1,3-Benzenedimethanamine)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN2735, Amines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, 1,3-Benzenedimethanamine), 8, III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	A3, A803
Limited quantity (LQ)	1 L
ERG Code	8L

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Export Notification requirements

This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend

TWA TWA (time-weighted average)

SAFETY DATA SHEET

BOSTIK HYTEC E570 ONE COAT - PART B
Supersedes date 11-Jul-2023

Revision date 18-Jul-2024
Revision Number 5

STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
Sk*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs
Revision date 18-Jul-2024

Indication of changes

Revision note	Not applicable.
Training Advice	No information available
Further information	No information available

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet